

Product Manual

LoRaWAN Data Transmission Terminal Model: IOT-L2S-C1&C2

Product Introduction

The LoRaWAN Data Transmission Terminal, Model IOT-L2S-C1&C2, is a universal communication interactive equipment which is designed and manufactured based on LoRa RF chip. It integrates two interfaces of industrial standard RS485 and supports a variety of protocols to realize the data transmission between wired and wireless devices. The RF chip SX1276 from Semtech is used as RF part to realize long-distance transmission. It supports LoRaWAN Class C protocol. It can be widely applied in the IoT, centralized metering and industrial control etc..



Key Features

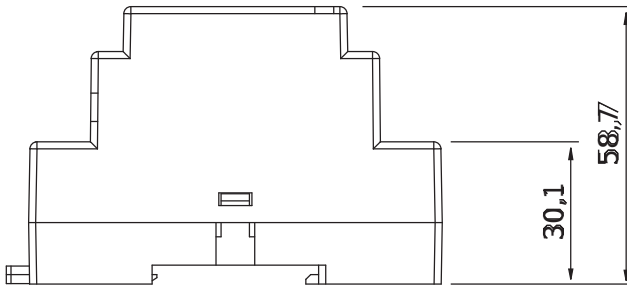
- 2 standard interfaces of RS485, supporting a variety of protocols and communicating with various auto devices with **RS485** interfaces
 - Equipped LoRa chips **SX1276** from Semtech for RF part
 - **Supporting LoRaWAN Class C protocol**
 - Wireless ultra-long transmission range with up to **15 km** barrier free
 - Small size, easy to install
 - Working temperature range: -20 ~70 , suitable in all kinds of harsh environment
 - Wide operating voltage range with optional multi specification models
 - 1 LoRaWAN module can connect up to **16** Modbus RTU protocol devices and **16** DL/T645 protocol devices simultaneously
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Parameter

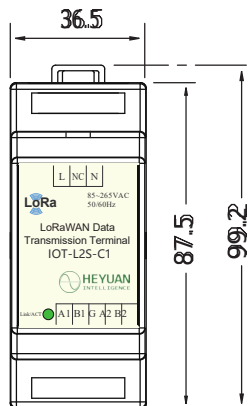
Product Parameter	
Power Supply	AC85-265V,50/60Hz or DC8-36V
Power Consumption	<1W
Protocols Supported by RS485	Modbus RTU, DL/T 645
RS485 Communication Baud Rates	1200-115200bps
Installation	Din rail mounted installation

RF Parameter	
Working Frequency Range	863MHz-870MHz
ISM Band	868MHz
Antenna Impedance	50Ω
Output Power	14dBm100mA
Sensitivity	-139dBm(SF12, broadband125KHz)
Sending Packet Length	51-222bytes
Receiving Packet Length	51-222bytes
Communication Range	15km

Dimension



Side View



Top View

Terminal Definition

Terminal Definition	
L	Line L of Power Input
N	Line N of Power Input
NC	Null
A1	RS485-1 communication interface A
B1	RS485-1 communication interface B
G	Grounding
A2	RS485-2 communication interface A
B2	RS485-2 communication interface B

Model Selection

Model	RS485	Power Supply Voltage	Wireless Parameters	
			Working Frequency	Networking Modes
IOT-L2S-C1	2	AC85-265V	868MHz	LoRaWAN
IOT-L2S-C2	2	DC8-36V	868MHz	LoRaWAN

Example of Application System

